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TITLE: Optimizing and Validating a Brief Assessment for Identifying
Children of Service Members at Risk for Psychological Health Problems
Following Parent Deployment

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14. ABSTRACT Parental deployment can disrupt the care children receive both as a result of deployment-related separation and the potentially destabilizing impact of deployment on the remaining caregiver and daily routines. This study will follow 230 intact military families with a child between 4-7 years in a longitudinal pre- mid- and post-deployment study. At Pre and post deployment, Service Members and their Spouses complete questionnaires and interviews regarding their psychological health, marital and family functioning, and parent functioning. Spouses complete questionnaires regarding children's psych health and development at pre- mid- and post-timepoints. Children participate through doll and puppet play interview. Teacher ratings of the child are collected at all three timepoints. The objectives of this study are to: 1) Determine the impact of Service Member's post-deployment psychological health on children ages 4 to 7 years old, and; 2) Identify those particular Service Member's Psychological Health-related symptoms that place children at risk for negative outcomes and assess the means by which these symptoms undermine children's adjustment directly by the Service Member and indirectly via negative impact on the Spouse. Current progress includes successful IRB review and survey development. The PI has changed institution and the award is to be transferred to her new institution.				
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INTRODUCTION

Parental deployment can disrupt the care children receive both as a result of deployment-related separation and the potentially destabilizing impact of deployment on the remaining caregiver and daily routines. This study will follow 230 intact military families with a child between 4-7 years in a longitudinal pre- mid- and post-deployment study. At Pre and post deployment, Service Members and their Spouses complete questionnaires and interviews regarding their psychological health, marital and family functioning, and parent functioning. Spouses complete questionnaires regarding children's psychological health and development at pre- mid- and post-timepoints. Children participate through doll and puppet play interview. Teacher ratings of the child are collected at all three timepoints. The objectives of this study are to: 1) Determine the impact of Service Member's post-deployment psychological health on children ages 4 to 7 years old, and; 2) Identify those particular Service Member's Psychological Health-related symptoms that place children at risk for negative outcomes and assess the means by which these symptoms undermine children's adjustment directly by the Service Member and indirectly via negative impact on the Spouse.

BODY

The majority of work accomplished in the first 12 months of this award included the finalization of the assessment protocols and successful obtainment of IRB approval from The University of Connecticut. In August 2012, the Principle Investigator and Co-PI left their respective institutions for Wayne State University. New IRB approval was obtained at Wayne and the award was transferred to the new institution.

Measures

Below is a list of constructs, the measures or means by which they are being assessed, and the rationale for why each construct is important to the study.

Service Member psychological functioning – to be completed by the Service Member prior to and following deployment:

- PTSD Checklist Military Version – measures PTSD symptoms
- Dissociative Experiences Scale – measures Dissociative symptoms
- Center for Epidemiological Studies Depression Scale – measures depressive symptoms
- Difficulties in Emotion Regulation Scale – measures difficulties with emotion regulation that are often co-occurring difficulties with poor psychological functioning
- Penn State Worry Questionnaire – measures general anxiety and worry symptoms
- Michigan Alcohol Screening Test – measures alcohol misuse
- State-Trait Anger Inventory – measures difficulties with anger that often co-occur with difficulties with poor psychological functioning

Each of these measures are necessary for understanding Service Members' pre-deployment level of psychological functioning as well as their post-deployment level of functioning in order to ascertain the ways in which functioning at both time points and changes in that functioning influence spouse functioning, marital relationship functioning, parenting, and child well being.

Service Member's exposure to stressful events prior to and during deployment as well as their social support following deployment will be assessed with the 14-dimension Deployment Risk and Resiliency Inventory. *This measure will allow us to gain a better assessment of Service Member's stressful experiences and those factors that might mitigate stress and as such serve to moderate risk to families and children.*

Spouse psychological functioning – to be completed by the spouse prior to, during, and following deployment:

(please see list above regarding what measures assess)

- PTSD Checklist Civilian Version
- Dissociative Experiences Scale
- Center for Epidemiological Studies Depression Scale
- Difficulties in Emotion Regulation Scale
- Penn State Worry Questionnaire
- Michigan Alcohol Screening Test
- State-Trait Anger Inventory

Each of these measures are necessary for understanding Spouses' pre-, mid-, and post-deployment level of psychological functioning. Spouses play an important role in moderating the impact of deployment and Service Member functioning on children – as such it is necessary for us to ascertain how spouses are functioning at each time point. We hypothesize that one mechanism by which child well-being may be undercut is through spouse functioning to be negatively impacted by the Service Member's functioning.

Service Member and Spouse Attachment Representations – to be completed with the Service Member and Spouse prior to deployment and following deployment.

It is hypothesized the organization of Service Member and spouse's attachment representations may influence children's psychological health and well-being. In addition, attachment representations may be viewed as one assessment of Service Member's and spouses' own well-being.

Marital and Family Functioning - to be completed by the Service Member prior to and following deployment and by the spouse prior to, during, and following deployment:

Dyadic Adjustment Scale – measures marital functioning

Conflict-Tactics Scale

Family Adaptability and Cohesion Scales

Marital and family functioning will serve as an indicator of family well-being. Measuring this construct at each time point is necessary in order to monitor changes in well-being in this domain. In addition, it is hypothesized that marital conflict may also contribute to increased child difficulties and therefore serve as predictive role in the model as well.

Parent-Child relationship quality and parent's experience of parenting –

Parenting Stress Index – Short Form – Service Member will complete prior to and following deployment and spouse will complete before, during, and after deployment

Caregiving Helplessness Questionnaire - Service Member will complete prior to and following deployment and spouse will complete before, during, and after deployment

Free Play and clean up observation of parent and child with toys – Child will engage in these interactions with their father prior to and following the deployment and with their mother prior to, during, and after the deployment.

Parenting behaviors, attitudes, and perceptions have all been found to be important contributors to child well-being and as such is an important construct to be measured at each time point as a predictor of child adjustment.

Child psychological functioning and adjustment -

Child Behavior Checklist – to be completed by Service Member prior to and following deployment and spouse prior to, during, and following deployment

Child Behavior Checklist – Teacher Report Form – to be completed by child's teacher (whoever is teaching the child at that time point) at each of the data collection time points

Sessa Puppet Interview – conducted by research assistant with the child at each of the three time points

Doll Play – conducted by a research assistant with the child as a measure of attachment status.

Caregiver Helpless Questionnaire – the 4-item Child Frightened subscale and 6-item Child Caregiving Towards Parents subscale will be used to assess children's feelings of fright in response to parent's symptomatology or behavior.

Child adjustment from parent, teacher, and child perspectives are one of the key outcomes of the study.

Child developmental skills –

- Child Behavior Questionnaire – Very Short Form – This measure of temperament will be completed by Service Members prior to and following the deployment and by spouses prior to, during, and following the deployment
- Cleanup - This task will also be used to measure compliance as a measure of self regulation.
- Delay Task (M & M or Marshmallow) – This measure of self regulation will be conducted with the child by the research assistant.
- Persistence Task (Puzzle or Circles) – This measure of self regulation will be conducted with the child by the research assistant.
- Emotion Regulation Checklist – This measure will be completed by the Service Member prior to and following deployment and by the spouse prior to, during, and after deployment.
- Problem solving tasks (Puzzles and Mazes or Pegs and Beads and Anagrams) – These task will be completed by Service Members and spouses with their children as a measure of emotion regulation.
- Wait task - This task will be completed by the research assistant with the child in the presence of one parent as a measure of child emotion regulation and self regulation.
- Social Skills Rating Scale – This measure will be completed by Service Members and spouses as a measure of preschool children’s development of age appropriate skills in interacting with peers.
- Preschool Behavior Questionnaire – Teachers will completed this 30-item measure as a measure of children’s interpersonal competence and social adjustment in the classroom.
- Preschool Social Competence Scale – Teachers will complete this 39-item measure which assess children’s level of cooperation, assertiveness, and prosociability in interaction with peers.
- Measure adapted from Lansford et al. (2006) project– Parent’s will complete this 14-item questionnaire as a measure of school age children’s social acceptance, popularity, friendship formation, and friendship quality among early school age children.
- Teacher-Child Rating Scale – 10-item social subscale – Teachers will complete this 10 item subscale as a measure of preschool children’s social behavior and skills that contribute to peer acceptance.
- 5 –item academic competencies and difficulties subscale will be completed by teachers as a measure of school age children’s school competencies.
- Behavior Assessment System for Children – 13 items will be used from this measure to assess preschool children’s “work related skills” such as their ability to try new things, adjust to changes in routines, pay attention, and persist when learning.

ECLS – Adapted versions of questionnaires regarding academic competence will be given to teachers of school age children. These 21-item questionnaires measure specific skills that children should demonstrate at each grade.

The other key outcome of the study is children's ability to attain stage salient tasks at each developmental stage. These measures and tasks are designed to assess these.

In addition, sociodemographic information will including age, marital status, household composition, education, personal/household income, spouse/partner occupational status/history, race/ethnicity, and current living situation (e.g. on base, off base, with extended family etc.) will be collected as well as military specific information including service member's military history such as current rank, history of deployment (i.e. number of deployments, longest and shortest deployment), length of time stationed at Fort Drum.

The Peabody Picture Vocabulary Test-Revised (PPVT-R; Dunn & Dunn, 1981) a measure of receptive language will be used as an estimate of children's intellectual functioning

KEY RESEARCH ACCOMPLISHMENTS

- Protocol design completed and survey assessments finalized.
- IRB approval obtained.
- PI Transferred from University of Connecticut to Wayne State University
- Award closed to be transferred to new Institution.

REPORTABLE OUTCOMES

IRB approval was obtained and the assessments were finalized. After the award is successfully opened at the PI's new Institution, recruitment will begin.

CONCLUSION

With this award, we hope to identify the specific pathways of influence a Service Member's Psychological Health related problems influence their spouse and child's well being and provide a guide for improving resilience.

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